

## ABSTRACT OF THE DISCLOSURE

A system and method of receiving orders, placing orders in an order matrix, determining potential production periods for an order, rescheduling orders, and generating a bill of materials. The method receives an order having one or more tokens out of a set of possible tokens. Each token is a combination of a characteristic and a value of the characteristic. The orders are placed in an order matrix. An order restriction matrix for the orders is generated based on certain selection conditions. The method then examines the restrictions that apply to the order and derives an order derived production restriction matrix for the order, which is evaluated to determine possible production periods for the order. The order matrix may also be used to generate a bill of materials.

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